Chih-Hsuan Chen

List of Publications by Year
in descending order

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28	325	933447 10	888059 17
papers	citations	h-index	g-index

28	28	28	216
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolutions of superelasticity and elastocaloric effect of Ti50Ni48Fe2 and aged-hardened Ni-rich Ti49.2Ni49.3Fe1.5 shape memory alloys under cyclic compressive deformation. Journal of Alloys and Compounds, 2022, 893, 162352.	5.5	13
2	Compressive stress-induced martensitic transformation and elastocaloric effect in Cu-Al-Mn single-crystal alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142945.	5.6	10
3	Phase formations and microstructures of Ti20Zr15Hf15Ni35Cu15 high-entropy shape memory alloy under different aging conditions. Materials Today Advances, 2022, 14, 100223.	5.2	4
4	Microstructure and Superelastic Properties of FeNiCoAlTi Single Crystals with the <100> Orientation under Tension. Crystals, 2022, 12, 548.	2.2	3
5	Inhomogeneous martensitic transformation behavior and elastocaloric effect in a bicrystal Cu-Al-Mn shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140386.	5.6	17
6	Alloying-assisted precipitation strengthening of Ti50Ni15Pd25Cu10 shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 821, 141636.	5.6	6
7	On the Decrease in Transformation Stress in a Bicrystal Cu-Al-Mn Shape-Memory Alloy during Cyclic Compressive Deformation. Materials, 2021, 14, 4439.	2.9	7
8	Shape Memory Properties and Microstructure of New Iron-Based FeNiCoAlTiNb Shape Memory Alloys. Crystals, 2021, 11, 1253.	2.2	7
9	Microstructure and Mechanical Properties of (TiZrHf)50(NiCoCu)50 High Entropy Alloys. Metals and Materials International, 2020, 26, 617-629.	3.4	21
10	Improved functional stability of Ti-rich TiNi shape memory ribbon prepared by melt-spinning. Journal of Alloys and Compounds, 2020, 819, 152988.	5.5	9
11	Mechanical and elastocaloric effect of aged Ni-rich TiNi shape memory alloy under load-controlled deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139554.	5.6	20
12	Strain glass and stress-induced martensitic transformation characteristics of Ti40Zr10Ni40Co5Cu5 multi-principal element alloy. Scripta Materialia, 2020, 186, 127-131.	5.2	12
13	Full-field stress and strain measurements revealing energy dissipation characteristics in martensitic band of Cu-Al-Mn shape memory alloy. Materials Today Communications, 2020, 24, 101321.	1.9	6
14	Surface Modification of FeCoNiCr Medium-Entropy Alloy (MEA) Using Octadecyltrichlorosilane and Atmospheric-Pressure Plasma Jet. Polymers, 2020, 12, 788.	4.5	4
15	Effect of Solution Treatment on the Shape Memory Functions of (TiZrHf)50Ni25Co10Cu15 High Entropy Shape Memory Alloy. Entropy, 2019, 21, 1027.	2.2	22
16	Precipitation hardening by nanoscale Ti2Ni phase in high Ti-rich Ti52.6Ni46.8Si0.6 melt-spun ribbon. Journal of Alloys and Compounds, 2019, 810, 151904.	5.5	8
17	The Analysis of Superelasticity and Microstructural Evolution in NiTi Single Crystals by Molecular Dynamics. Materials, 2019, 12, 57.	2.9	11
18	Shape memory characteristics of (TiZrHf)50Ni25Co10Cu15 high entropy shape memory alloy. Scripta Materialia, 2019, 162, 185-189.	5.2	72

#	Article	IF	Citations
19	A study on the crystallization behavior of amorphous Ti50Ni25Cu25 shape memory ribbon by X-ray diffraction measurement. Intermetallics, 2018, 93, 347-354.	3.9	10
20	Transformational and pseudoelastic characteristics of melt-spun Ti50Ni25Cu25 shape memory ribbon crystallized and aged at a low temperature. Journal of Alloys and Compounds, 2018, 753, 655-663.	5.5	8
21	Pseudoelasticity response of aged Ti50Ni25Cu25 shape memory ribbon under nanoindentation tests. Intermetallics, 2015, 64, 78-85.	3.9	7
22	Observations of self-accommodated R-phase morphologies in a Ti 50.3 Ni 48.2 Fe 1.5 shape memory alloy. Materials Characterization, 2015, 107, 202-210.	4.4	4
23	Classification and analysis of trigonal martensite laminate twins in shape memory alloys. Acta Materialia, 2015, 89, 193-204.	7.9	8
24	The characteristics of precipitation hardening and the shape memory effect in aged Ti 50.6 Ni 39.4 Cu 9.8 Si 0.2 shape memory ribbons. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 613, 317-325.	5.6	5
25	Superelasticity of TiNi-based shape memory alloys at micro/nanoscale. Journal of Materials Research, 2014, 29, 2717-2726.	2.6	7
26	Martensitic transformation and pseudoelasticity of aged Ti50.1Ni49.7Si0.2 shape memory ribbon. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 593, 85-91.	5.6	9
27	Nanoindentation studies on precipitation hardening of Ti-rich Ti50.4Ni49.5Si0.1 shape memory ribbons. Intermetallics, 2013, 36, 109-117.	3.9	10
28	A study of the structure of G-P zones in Ti-rich TiNi shape memory melt-spun ribbons. Philosophical Magazine, 2013, 93, 3167-3176.	1.6	5